

THREAT ANALYSIS

ABSTRACT OF THE DISCLOSURE

Virtual penetration testing using threat analysis is disclosed. Threat analysis may
5 be achieved by evaluating attack paths and chain reactions of compromised assets created
by threats, threat agents, or threat mechanisms. A threat agent having an existing access
level is identified. The existing access level is used to analyze an attack path between the
threat agent and an asset. The existing access level is updated if the analysis of the attack
path between the threat agent and the asset indicates that an attack along the path would
10 be successful.